

PHENIX WEEKLY PLANNING

9/21/06 Don Lynch

PHENIX Shutdown Overview



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Support

Task_Name	Start_Date	Finish_Date
- uon_numb	otart_Date	Timon_bato
PHENIX Shutdown '06	5/1/2006	12/8/2006
Pre Shutdown Tasks	5/1/2006	DONE
End of Run 6	6/27/2006	DONE
Shutdown Preparations	6/27/2006	DONE
Detector Upgrades	7/19/2006	10/10/2006
Planned electrical power outage	7/24/2006	DONE
Subsystem maint/repair tasks	7/19/2006	10/10/2006
Building and infrastructure tasks	5/1/2006	10/31/2006
E carriage roll in & setup	10/11/2006	10/31/2006
RHIC Cooldown Begins	11/1/2006	11/1/2006
Run Prep	11/22/2006	12/8/2006
Shutdown Concluded Start Physics Run	12/8/2006	12/8/2006



TOF West

- Mechanical Installation Complete
- Cables Run
- Rack Modifications ongoing
- Testing and commissioning to be completed









RXNP

- Technica Mechanical Installation Complete
 - Cables Run
 - Rack Plumbing, Power on going
 - Testing and commissioning to be completed









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- Mechanical Installation HBD West Complete
- - · Rack Plumbing, Power to be completed
 - Testing and commissioning to be completed
- Mechanical Installation
 HBD West Cables Run
 Rack Plumbing, Power to
 Testing and commission
 HBD East now at Stone
 10/2/06; mechanical in completed by 10/6/06 HBD East now at Stony Brook due here
 - 10/2/06; mechanical installation to be
 - completed by 10/6/06
 - Cooling & Bakeout heater
 - Systems to be installed
 - Gas Hutch renovation ongoing









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HBD Electronics Cooling

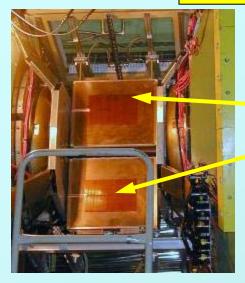


Still Needed for Approval to Operate:

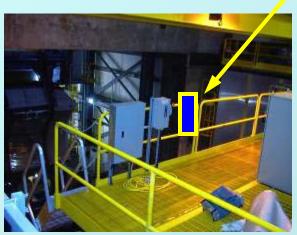
- Where will fan(s) be mounted? CM base "cubby hole" fan model and specs to be forwarded to Safety
- Written installation & operation procedure To be forwarded to Safety



HBD Heaters



Heater Controls



Needed for Approval to Operate:

- Heater Specs 6 MINCO non-magnetic kapton laminate heaters per detector, 17.6 ohms per heater (2 shown, 2 each on ends) Spec sheets need to be supplied to Safety
- Peak current/Voltage/Power 70 watt peak power 35 Volt/2 amp peak (per heater) Variacs must have provision to prevent voltage higher than 35 V Controller designed and being built
- Written installation & operation procedure To be forwarded to Safety



HBD Signal Rack



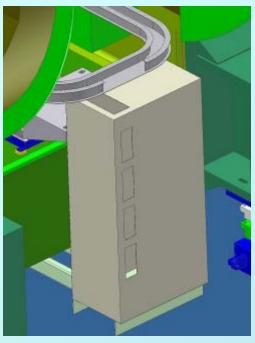
Cutouts for signal cables



Signal cables routed down east side of crate covered by "chimney"



HBD Signal Rack



 Modify tray and rack side panel



2. Add \(\frac{1}{4}\)" top plate/cover



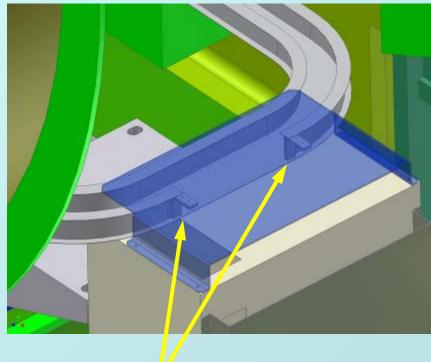
3. Add 4" chimney



HBD Signal Rack







5. Internal supports replace connecting member and supply support for the $\frac{1}{4}$ " thick top cover/step



Remaining Schedule

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	Start	Complete
TOF West		
Electrical, modify/upgrade rack	in progress	10/10/06
Commissioning	in progress	10/10/06
RXNP		
Electrical, rack integration: water & power	in progress	10/10/06
Commissioning	in progress	10/10/06
HBD		
Electrical cables, rack integration: water & power	in progress	10/10/06
Gas Plumbing	in progress	10/10/06
East pre-survey	9/29/06	9/29/06
East mechanical installation (incl. final survey)	10/02/06	10/06/06
East cable trays	10/9/06	10/10/06
HBD preamp cooling system	9/5/06	9/29/06
HBD drying heater system	9/5/06	9/29/06
Commissioning	9/25/06	10/31/06



Remaining Schedule (cont'd)

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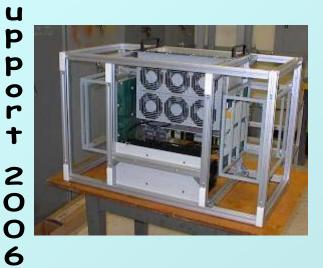
	Start	Complete
MPC North		
Mechanical installation	9/13/06	10/6/06
Electrical, modify/upgrade rack	9/25/06	10/6/06
Commissioning	9/29/06	10/31/06
DC West Wire Repairs	9/18/06	9/22/06
MuTr North & South HV & FEE troubleshooting	Done	Done
PC HV module and cable maintenance	10/24/06	10/31/06
TEC maintenance & Repairs	in progress	10/6/06
BBC North & South maintenance & repairs	in progress	9/29/06
MuID survey	10/2/06	10/6/06
MuID commissioning	11/22/06	11/29/06



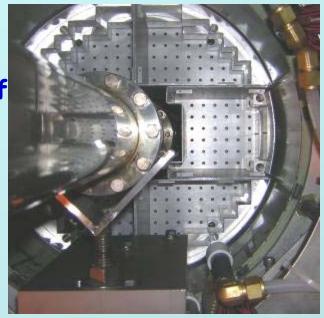
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MPC North

- Mechanical installation started, but delayed
- Driver boards won't be ready until end of next week at best Oct. 2nd is more realistic
- · Crate & cable routing to the bridge
- Testing and commissioning to be completed



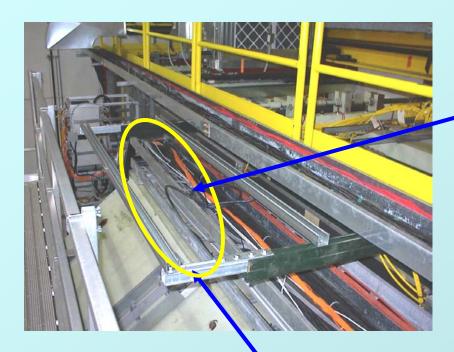




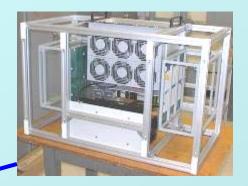




MPC North Cable Routing



Unistrut Crate Support



MPC North Crate



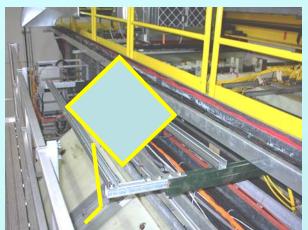


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MPC North Cable Routing







1. Crate supported on unistrut west of north crossover

2. Cables routed to tray under north crossover platform

3. Cables routed in tray mounted to MMN top lampshade

4. Cables run down from top of station 1 into Piston Cavity and connect to MPC driver boards





Subsystem Maintenance & Repairs

- · EMCal West & East Done
- · DC HV/LV patch panel upgrade Done
- · DC wire short troubleshooting Done
- · MuTr grounding problems Done
- MuTr North and South HV/FEE troubleshooting Done
- PC HV module/cable maintenance next month
- TEC upgrades on going
- BBC South & North out for repairs will be reinstalled later this month
- MPC South repairs Done
- MuID survey/commissioning next month





Infrastructure

Work

Done

Done

Done



Done

Done

CAD/RHIC PHENIX infrastucture related mechanical and electrical support

Emergency remote breaker installation

Summer Sunday review platform and safety rails

Bridge Water supply vertical piping rework

Mixing House exhaust fan maintenance

Raw materials storage container painting and doors

Roof leak repairs

MuID survey

Bridge protective runners









9/21/06



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Remaining Schedule

(cont'd)

	Start	Complete
East carriage roll in & setup		
Prepare IR & EC for move to IR/move cart, manlifts, collars	11-Oct	13-Oct
EC Roll in	16-Oct	17-Oct
Connect EC services	18-Oct	24-Oct
Install EC Ladder	24-Oct	25-Oct
Install EC rear access & ext.	25-Oct	26-Oct
Move MMS full North/Install beam pipe collar	26-Oct	26-Oct
Rebuild Rolling door	30-Oct	1-Nov
RHIC Cooldown Begins	1-Nov	1-Nov
Close rolling door	1-Nov	1-Nov
Pink Sheeting & Blue Sheeting	1-Nov	21-Nov
Start Flammable Gas Flow	22-Nov	22-Nov
All Up Commissioning	27-Nov	1-Dec
Beam in yellow ring	22-Nov	22-Nov
Beam in blue ring	29-Nov	29-Nov
RHIC beam conditioning	30-Nov	8-Dec
Shutdown Concluded/Start of Physics Run	8-Dec	8-Dec

Next Week

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- · MPC N installation continues
- Finalize HBD west cable installation
- · BBC North reinstallation
- HBD & RXNP rack wiring and electrical tests
- · HBD signal rack chimney/ladder
- TEC repairs
- MPC N Cable path/trays



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Where To Find PHENIX Technical Info

Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm